

<b>Fiscal Unit/Academic Org</b>	Economics - D0722
<b>Administering College/Academic Group</b>	Social And Behavioral Sciences
<b>Co-administering College/Academic Group</b>	
<b>Semester Conversion Designation</b>	Converted with minimal changes to program goals and/or curricular requirements (e.g., sub-plan/specialization name changes, changes in electives and/or prerequisites, minimal changes in overall structure of program, minimal or no changes in program goals or content)
<b>Current Program/Plan Name</b>	Economics Minor
<b>Proposed Program/Plan Name</b>	Economics Minor
<b>Program/Plan Code Abbreviation</b>	ECON-MN
<b>Current Degree Title</b>	

## Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		25	16.7	15	1.7
Required credit hours offered by the unit	Minimum	25	16.7	15	1.7
	Maximum	25	16.7	17	0.3
Required credit hours offered outside of the unit	Minimum	0	0.0	0	0.0
	Maximum	0	0.0	0	0.0
Required prerequisite credit hours not included above	Minimum	0	0.0	0	0.0
	Maximum	5	3.3	3	0.3

## Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

**Program Learning Goals**      • This is a minor not a degree program.

## Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

**Is this a degree program (undergraduate, graduate, or professional) or major proposal?** No

## Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

## Pre-Major

**Does this Program have a Pre-Major?** No

**Attachments**

- semesterConversionECONMinor Proposal Dec 7.pdf: Program Proposal  
*(Program Proposal. Owner: Ramirez, Ana G)*
- Chair LTR Dec 6.pdf: Dept Chair LTR  
*(Letter from Program-offering Unit. Owner: Ramirez, Ana G)*
- Division Cover Letter for Economics.doc: Division Letter  
*(Letter from the College to OAA. Owner: Mumy, Gene Elwood)*

**Comments**

**Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Ramirez, Ana G	07/27/2010 08:50 PM	Submitted for Approval
Revision Requested	Weinberg, Bruce A	08/02/2010 10:33 AM	Unit Approval
Submitted	Ramirez, Ana G	08/02/2010 10:48 AM	Submitted for Approval
Approved	Weinberg, Bruce A	08/02/2010 12:57 PM	Unit Approval
Revision Requested	Mumy, Gene Elwood	08/31/2010 01:31 PM	College Approval
Submitted	Ramirez, Ana G	08/31/2010 01:42 PM	Submitted for Approval
Revision Requested	Weinberg, Bruce A	08/31/2010 01:49 PM	Unit Approval
Submitted	Ramirez, Ana G	08/31/2010 03:01 PM	Submitted for Approval
Approved	Weinberg, Bruce A	08/31/2010 05:43 PM	Unit Approval
Revision Requested	Mumy, Gene Elwood	10/12/2010 01:47 PM	College Approval
Submitted	Ramirez, Ana G	10/14/2010 04:29 PM	Submitted for Approval
Revision Requested	Weinberg, Bruce A	10/19/2010 03:59 PM	Unit Approval
Submitted	Ramirez, Ana G	10/20/2010 11:38 AM	Submitted for Approval
Approved	Weinberg, Bruce A	10/20/2010 12:21 PM	Unit Approval
Revision Requested	Mumy, Gene Elwood	11/23/2010 08:47 PM	College Approval
Submitted	Ramirez, Ana G	12/07/2010 01:37 PM	Submitted for Approval
Approved	Weinberg, Bruce A	12/07/2010 01:44 PM	Unit Approval
Approved	Mumy, Gene Elwood	12/07/2010 03:32 PM	College Approval
Pending Approval	Nolen, Dawn Jenkins, Mary Ellen Bigler Meyers, Catherine Anne Vankeerbergen, Bernadette Chantal Hanlin, Deborah Kay	12/07/2010 03:32 PM	ASCCAO Approval



Donald R. Haurin

December 6, 2010

Professor Gene Mumy, Dean  
College of Arts and Sciences  
Ohio State University  
E-mail: mumy.1@osu.edu

Department of Economics  
Ohio State University  
1945 North High Street  
Columbus, OH 43210-1172

Phone: (614) 292-5642  
Fax: (614) 292-3906

Dear Gene:

Along with this letter, please find the program conversion materials for the Department of Economics.

- **List of all current programs in the department**

- Undergraduate bachelors degree programs and/or majors – **Bachelor of Arts, Bachelor of Science**
- Undergraduate minors - **Minor**
- Undergraduate associate degree programs - **None**
- Graduate degree programs – **Ph.D., M. A.**
- Graduate minors – **Graduate Minor in Economics**
- Graduate certificate programs - **None**
- Graduate interdisciplinary specializations - **None**
- Professional degree programs - **None**
- Combined programs (e.g., BS/MS, Ph.D./ MD) - **None**

- **Summary of unit-level review processes for programs and courses**

**Undergraduate program:** this effort has been led by the Director of Undergraduate Studies (DUS), who worked closely with the Undergraduate Studies Committee (USC), the Undergraduate Coordinator, and our undergraduate advisors. The input of other members of the department, including faculty in specific areas, lecturers, and graduate students was solicited at many points in this process. It was also informed by input from undergraduates, including our assessment work. The conversion plan was also presented before our Undergraduate Economics Society (a member of University Student Government was also in attendance) to inform them of the changes and solicit feedback. As background, our undergraduate program consists of a BS, BA, minor, and service courses. We have a very large undergraduate program, with 500+ majors, hundreds of minors, and we provide a large amount of coursework for the GEC and to various colleges including FCOB. The standard for the discipline is that there be a set of introductory level courses (microeconomics and macroeconomics), intermediate theory courses, and courses in statistics/econometrics (more in the BS than the BA). In addition, there are a set of field courses and over the last decade we have introduced a set of topical courses (e.g., Housing Economics, Economics of Gender, Issues of the Underground Economy). We first reviewed our peer universities' economics programs and their structures and determined that our programs' underlying structures are generally consistent with current best practices, although less mathematically intensive

than some of our peers. The Undergraduate Studies Committee also explicitly discussed the range of restructuring that made sense. For instance, we discussed moving to experiment-based delivery of our principles courses: however, this change is not feasible at this time because of the lack of space in the department including lab space. We discussed the issue of credit hours of each class with faculty and lecturers and made decisions for individual courses, with some converting from 5 hours to 3 and others converting to 4. We reaffirmed the need for both a BS and BA; however, we seriously discussed whether there should be a calculus requirement for the BA as well as the BS. We decided in favor of incremental change for our BA and Minor and a more major re-envisioning for our BS. Taken as a whole, these changes will allow us to offer a curriculum that best matches OSU's variety of student abilities and interests. We are adding an additional elective requirement to both the BA and BS in order to add breadth. We strengthened our math requirement in the BA, but not to the level of requiring calculus. Complementing the stronger math requirements, we also are increasingly moving to a tiered approach in our offerings. Specifically, we will offer all of our principles courses (microeconomics and macroeconomics) and intermediate courses (again microeconomics and macroeconomics) in three versions instead of two to maintain the accessibility of our courses for service purposes while addressing the needs of advanced students. Complementing these approaches, we are adding a GPA cutoff of 2.25 (in the major and overall) for our BS degree, which will help us steer a small number of low-performing students currently in our BS over to our BA, where they are likely to be more successful. This will also enable us to increase the level of rigor in the most advanced courses taken by our BS students. We recently modified the requirements of the minor to permit greater flexibility for student choice and interests and this flexibility is being maintained. Given the size of our program, we offer most all undergraduate courses in multiple sections in AU-SP quarters. We considered the extent to which we can have multiple offerings under the semester model and the USC has addressed strategies to meet student demand given our resources. They identified a set of courses that may have to be offered in alternating years (these courses are reasonably popular and thus we do not want to drop them). During this effort the DUS submitted every course to the faculty for review and updating of the course description. Particular attention was paid to our Economic History and Econometrics courses. We met with FCOB representatives to keep them informed of our plans for the courses taken by business students. Economics has also taken the lead in discussions with all the units we work with most closely in terms of curriculum (AED Economics; the Glenn School; and International Studies) to coordinate offerings and ensure optimal course transitions. Of course, there will be additional details to work out over the coming year.

These efforts are on top of our continuous, ongoing review the undergraduate program and its delivery. Indeed there are a number of important efforts that came out of our continual review process that are already underway that will carry through under semesters. In the past two years we have paid a great deal of attention to our use of GTAs in undergraduate instruction, including new evaluation procedures (in addition to SEIs), our strategy for assigning GTAs to courses; and our staffing of large lecture-recitations classes. We have recently strengthened the ESL requirement for GTA instructors. We also have ongoing efforts, guided by the results from our assessment exercises, to increase access to both internships and research opportunities. These efforts will be pushed further as we shift to semesters. In summary, I believe that we have done a thorough review of the undergraduate program, and that we have carefully considered how to optimize the delivery of our programs under the semester model.

### **Summary of Changes to Undergraduate Program**

Our **Bachelor of Arts** is undergoing three important changes. One change is the introduction of supplementary mathematics requirements, which we feel will both benefit our students in their

subsequent coursework and bring us closer to peer institutions. We are also decimalizing our Principles of Microeconomics and Principles of Macroeconomics courses to allow smaller, more advanced sections for majors and minors (other students can be admitted with instructor permission). To ensure that the major continues to occupy the same share of total credit hours and provide additional breadth, we are also adding a fifth elective in the major.

We have made four important changes to the **Bachelor of Science**. First, we are decimalizing our Principles of Microeconomics and Principles of Macroeconomics courses to allow smaller, more advanced sections for majors and minors (other students can be admitted with instructor permission). Second, we are further decimalizing our Intermediate Microeconomics and Macroeconomics classes to enhance the learning experience of our most capable and motivated (Bachelor of Science) students. Specifically, all of our Bachelor of Science students are required to take calculus-based (.02) sections of these courses, but we are adding an additional “Schwarzenegger” level (.03) that will cover even more advanced material. Third, to ensure that the major continues to occupy the same share of total credit hours and provide additional breadth, we are also adding a fifth elective in the major. In addition to these changes, we are imposing a GPA cutoff to allow us to make our tracked approach more effective for all students.

The main change to our **undergraduate minor** is the decimalization of our Principles of Microeconomics and Principles of Macroeconomics courses to allow smaller, more advanced sections for majors and minors (other students can be admitted with instructor permission).

**Graduate program:** this effort is led by the Director of Graduate Studies (DGS), who worked closely with the Graduate Studies Committee (GSC) in the department. The DGS and GSC conducted a thorough review of our current offering, curriculum of our peer institutions, and studied ways to improve our competitiveness in the discipline. Our effort involved faculty-wide discussions in field groups, core instructional members, and graduate faculty meetings. The DGS and I also made special effort to communicate our needs with the Graduate School, and to coordinate our program revisions with the AED Economics Ph.D. program.

Our Ph.D. program involves three stages: a first year program of core methods and concepts (microeconomics, macroeconomics and econometrics), a second year program of field coursework, and the dissertation research development and completion in years three to five. The largest restructuring was to our core first-year curriculum, to reflect directional changes in our discipline and improved quality of applicants to our program. But, our discussions of the second and third year programs were also extensive, involving all of our eight field groups, which met separately and jointly, to determine the optimal content and delivery of our courses in the semester system. Every course’s content was reviewed and the DGS asked all faculty members involved in the graduate program to rewrite course descriptions. We embarked on comprehensive review and implementation of new policies for our graduate program a decade ago including a major outside review. We renewed the vigor of our review and implementation two years ago in anticipation of the semester conversion. Within the last 15 months, for example, we revised key requirements in our second and third year programs to enhance our students’ research potential and placement prospects.

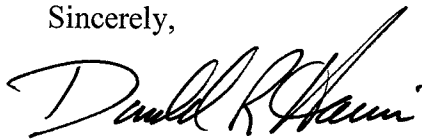
We also offer M.A. and Graduate Minor in Economics. Consistent with the norms of our discipline, our M.A. is embedded in our Ph.D. core curriculum, and we do not have separate de novo M.A. admissions. Our M.A. is open to all Ph.D. students in our program and related OSU programs such as Finance and AED Economics. The restructuring of our core Ph.D. curriculum also enables us to streamline the

delivery of M.A. examinations and course requirements. We introduced a Graduate Minor in Economics three years ago, with the technical level set between a quantitative honors B.S. in economics and an M.A. in economics. We have since learned more about the need of other Ph.D. programs for our Minor. The semester conversion gave us a timely opportunity to adjust our course offerings, to enable students to complete requirements within one academic year.

Our effort at continuous innovation includes not only the mechanism to achieve a higher standard, but also the size and composition of our students in the program starting with admissions. Our entering class consists almost exclusively of fellowship recipients; we rank as one of the top graduate programs in fellowship awards at OSU. My colleagues grappled with some difficult semester conversion issues and approached them as an opportunity to improve the quality of our graduate program, and our effort will continue as we enter the semester system. At the start of this academic year, I have asked the DGS, GSC, and graduate faculty if there is a way to improve further the quality of the second year field program under the semester structure. Many of our innovations in graduate program may not appear as a creation of new courses or course structure, but more as changes in structure and implementation of the program. Concurrently we are thus undertaking the major rewrite of Policies and Procedures for Graduate Program in Economics, a 40-page constitution of our program. In summary, I believe that we have done a thorough review of the graduate program, and that we have very carefully considered how to deliver its content under semesters.

In closing, I endorse these plans and recommend their approval. I would also like to thank you personally for your guidance during this process. We have invested considerable time in determining how to proceed and your input has proven invaluable.

Sincerely,

A handwritten signature in cursive script, appearing to read "Donald R. Haurin".

Donald R. Haurin  
Professor and Chair



College of Arts and Sciences

186 University Hall  
230 North Oval Mall  
Columbus, OH 43210

Phone (614) 292-1667

Fax (614) 292-8666

Web [artsandsciences.osu.edu](http://artsandsciences.osu.edu)

December 7, 2010

Professor Larry Krissek  
Chair, Arts and Sciences CCI

Dear Professor Krissek:

At the undergraduate level the Department of Economics has two major programs:

The Bachelor of Arts Economics major  
The Bachelor of Science Economics major.

In his cover letter, Department Chair Donald Haurin has explained in very careful detail the consideration given by the Department to the semester conversion plans for these two majors and the nontrivial changes made to the majors in the conversion. Economics has characterized the changes to the BA program as minor, which is correct for a slightly stiffened math requirement and the addition of one elective course. The BS program, on the other hand, is characterized as re-envisioned given the additional and significant changes to that program.

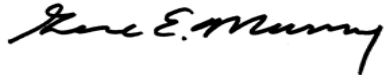
A change for both programs is that the two principles courses, Microeconomics and Macroeconomics, have been decimalized into two categories, one meant to provide the service level courses demanded by several other programs in the University and the other taught at a slightly more demanding level for majors and minors. Second, in line with the more demanding math requirement at peer universities for the BA, a pre-calculus math requirement has been added for the BA degree. Third, to add more breadth and/or depth, an additional upper division elective has been added to both degrees. Also, although the Intermediate Microeconomic and Macroeconomic Theory courses are already decimalized into calculus and non-calculus versions, the former being required in the BS program, a third even more advanced version has been added for high ability BS students that will provide the basis for entry into top graduate programs in the field.

Complementing the above changes is the addition of a GPA cutoff of 2.25 (in the major and overall) for the BS degree. The aim is to steer students who are inadequately prepared away from the BS and into the BA degree, which is less demanding mathematically. This approach will also allow an increase in the rigor of the most advanced courses taken by BS students.

These conversion plans were reviewed by me and the Social Sciences Disciplinary Advisory Panel (SS DAP) and enthusiastically endorsed. We submit Economics' major conversion plans to you for CCI's consideration.

At the undergraduate level the Department also offers an Economics minor. The minor was recently revised to allow greater student flexibility and the only change for the semester version is the plan to direct students into the more rigorous decimalized versions of the principles courses meant for majors and minors. The SS DAP and I have reviewed the conversion plan and endorse it. As a result I submit it to you for CCI's consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Gene E. Mumy". The signature is written in a cursive style with a large, prominent initial "G".

Gene E. Mumy

Associate Dean of Arts and Sciences/Social and Behavioral Sciences



## ECONOMICS MINOR SEMESTER PROPOSAL

- 1) **Program name: Economics**
- 2) **Degree title: Minor in Economics**
- 3) **Academic unit: Economics**
- 4) **Semester Conversion designation: Conversion with minimal changes**
- 5) **List of Semester Courses in the program**

The Economics Minor under semesters will continue to require 5 courses:

- I. Core Requirements
  - A. Economics 2001.01 / .02: Principles of Microeconomics
  - B. Economics 2002.01 / .02: Principles of Macroeconomics
- II. Required Theory—Students must select one of the following Courses
  - A. Economics 4001.01 / .02 / .03: Intermediate Microeconomics
  - B. Economics 4002.01 / .02 / .03: Intermediate Macroeconomics
  - C. Elementary Econometrics 4400
- III. Supplementary Requirements
  - A. Stat 1450 (required for students taking 4400 only)

The Minor requirements are composed of a core, which all students must take, a choice of a theory course and 2 additional Economics Elective Courses with at least 6 credit hours at the 3000-level or higher. Stat 1450 is a prerequisite for 4400, but not for 4001 or 4002.

6) **Comparison of current quarter-based and proposed semester-based curriculum advising sheets.** Current quarter-based curriculum advising sheet:

**MINOR PROGRAM FORM**  
**Colleges of the Arts and Science**

ECONOMICS

Name: *last, first, middle*

*Minor*

E-mail:

Telephone

Local Address:

**This form should be submitted to your college or school office.**

College/School of enrollment:

Major:

Expected date of graduation:

<i>Course</i>	<i>Hours</i>	<i>Grade</i>	<i>Course</i>	<i>Hours</i>	<i>Grade</i>
Econ 200	5		Econ 5xx	5	
Econ 201	5		Econ 5xx	5	
Econ 501 or 502 or 444	5				
<b>Total Hours</b>	<b>25</b>				

Proposed semester-based advising sheet:

**MINOR PROGRAM FORM**  
**Colleges of the Arts and Science**

ECONOMICS

Name: *last, first, middle*

*Minor*

E-mail:

Telephone

Local Address:

**This form should be submitted to your college or school office.**

College/School of enrollment:

Major

:

Expected date of graduation:

<i>Course</i>	<i>Hours</i>	<i>Grade</i>	<i>Course</i>	<i>Hours</i>	<i>Grade</i>
Econ 2001	3		Econ 3xxx	3	
Econ 2002	3		Econ 3xxx	3	
Econ 4001 or 4002 or 4400	3				
Total Hours	15				

**7) Rationale for Program Changes**

The program is essentially unchanged, although more advanced courses will become available.

**8) Table highlighting credit hour changes**

In cover materials.

**9) Rational for credit hour changes**

There is no change in credit hours beyond a 5 to 3 conversion.

**10) Transition policy**

Our minor is substantially unchanged; the courses in it are free standing, not sequences; and the same number of courses will be offered so we do not anticipate substantial transition issues, although advising will be important during the transition. Overall, we are committed to ensuring that students who began their degree under quarters will not be penalized as we move to semesters, either in terms of progress towards their degree or their expected date of graduation.